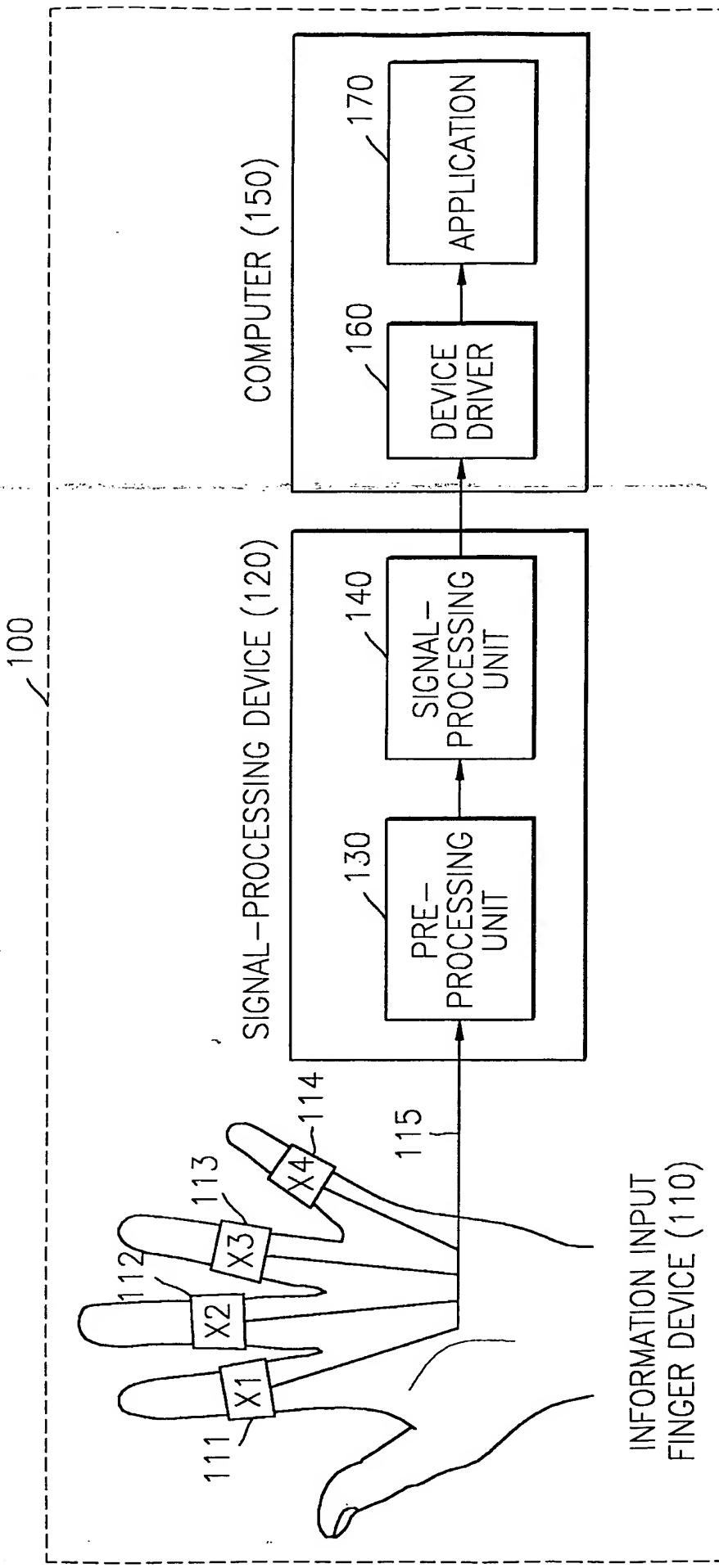


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FIG. 1A

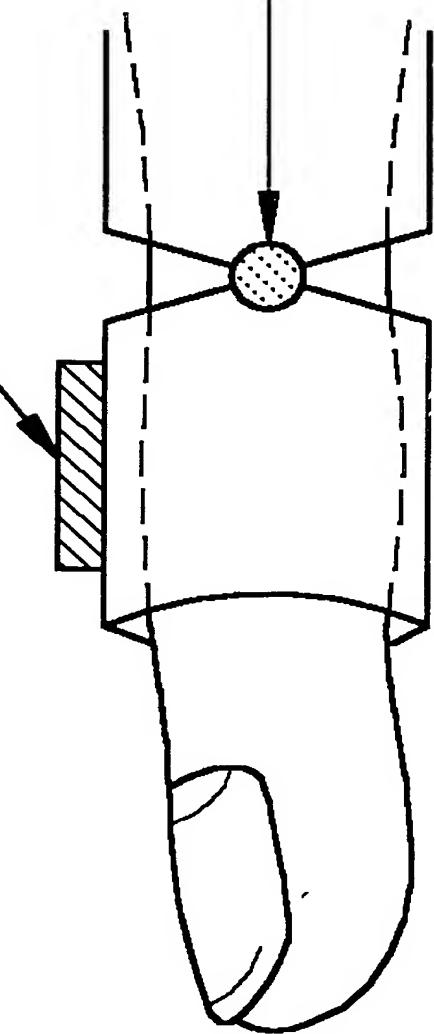


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FIG. 1B

ACCELERATION SENSOR (116)



# FIG. 2

200

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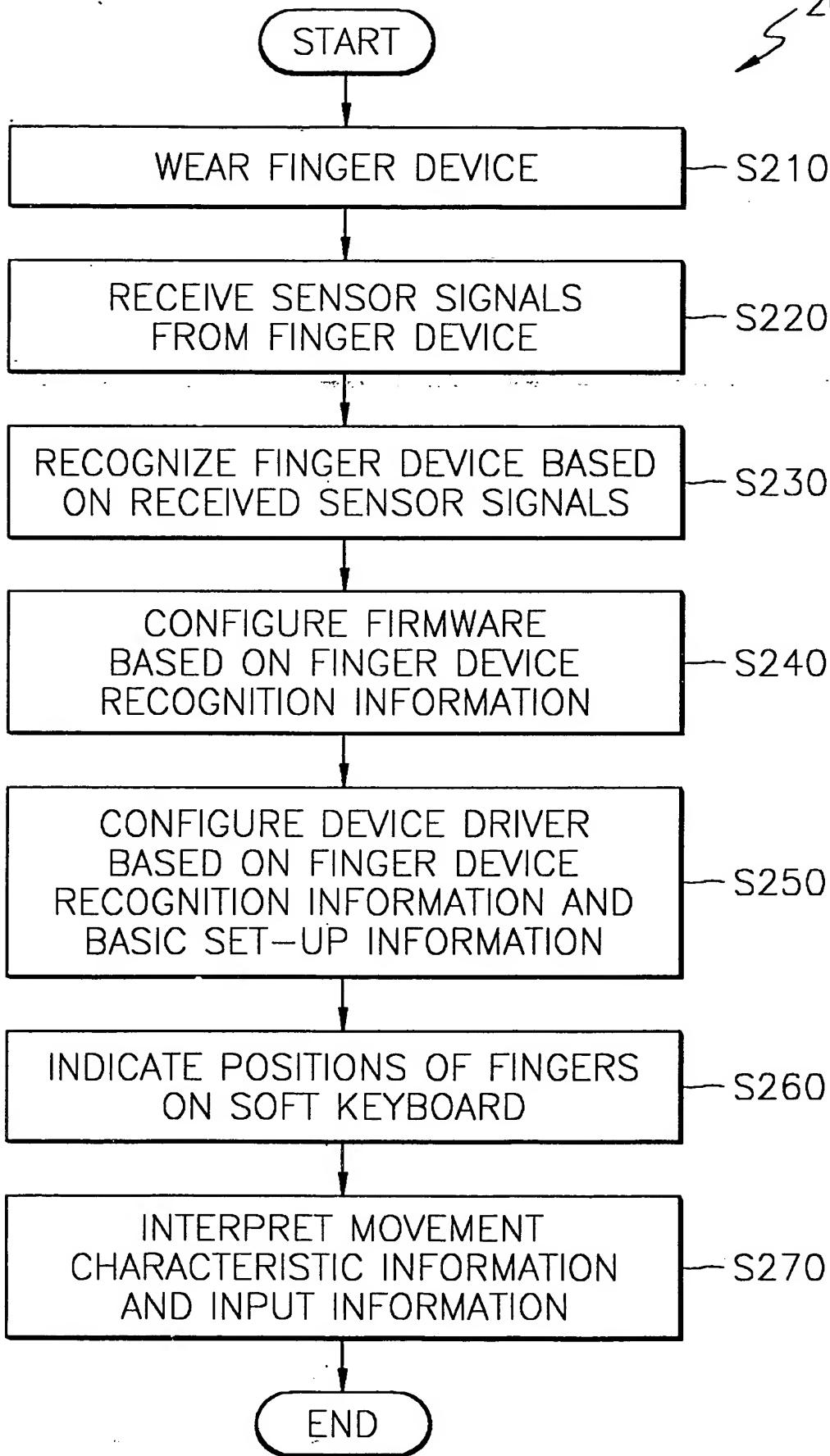
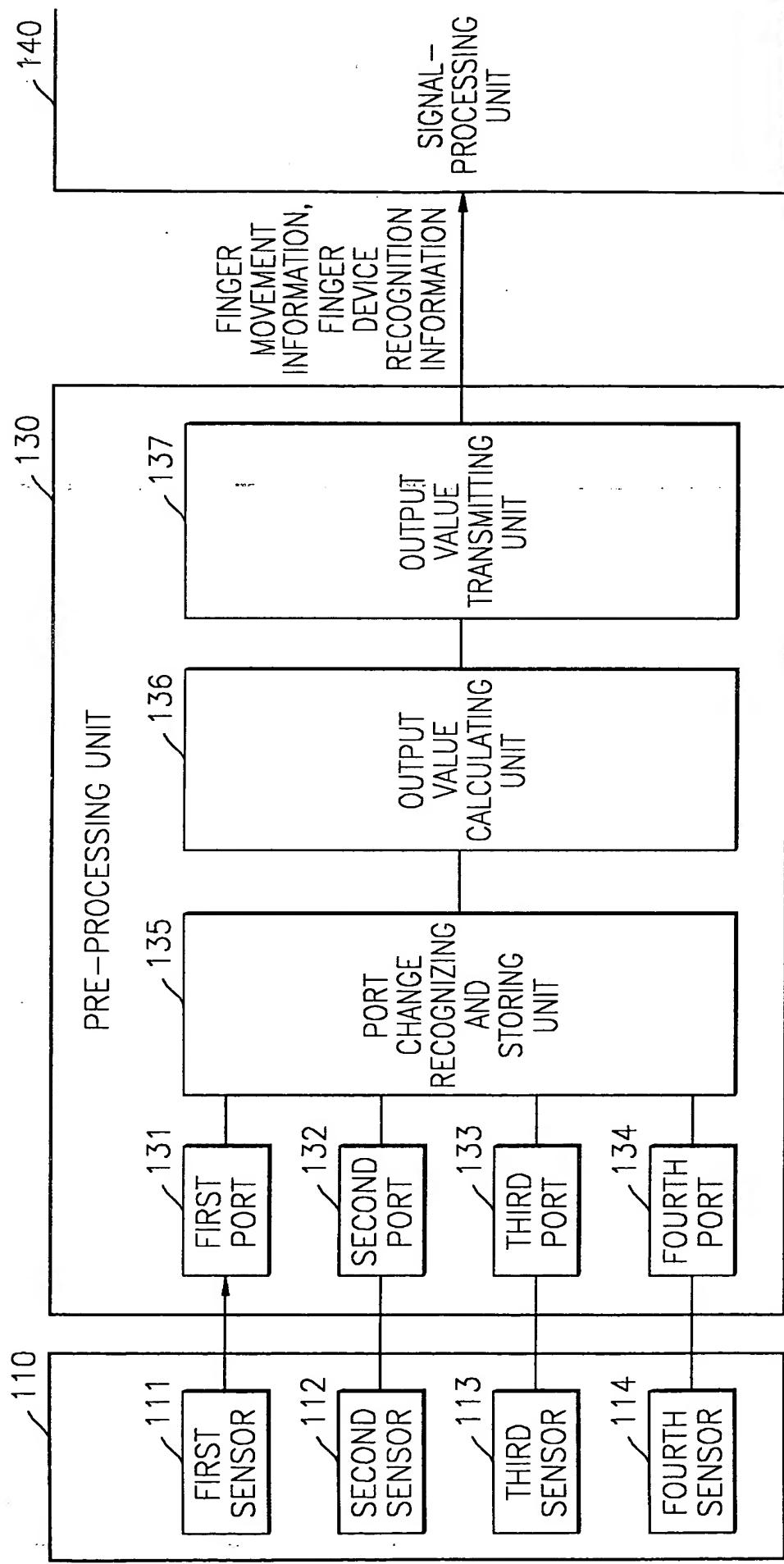


FIG. 3A



# FIG. 3B

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300

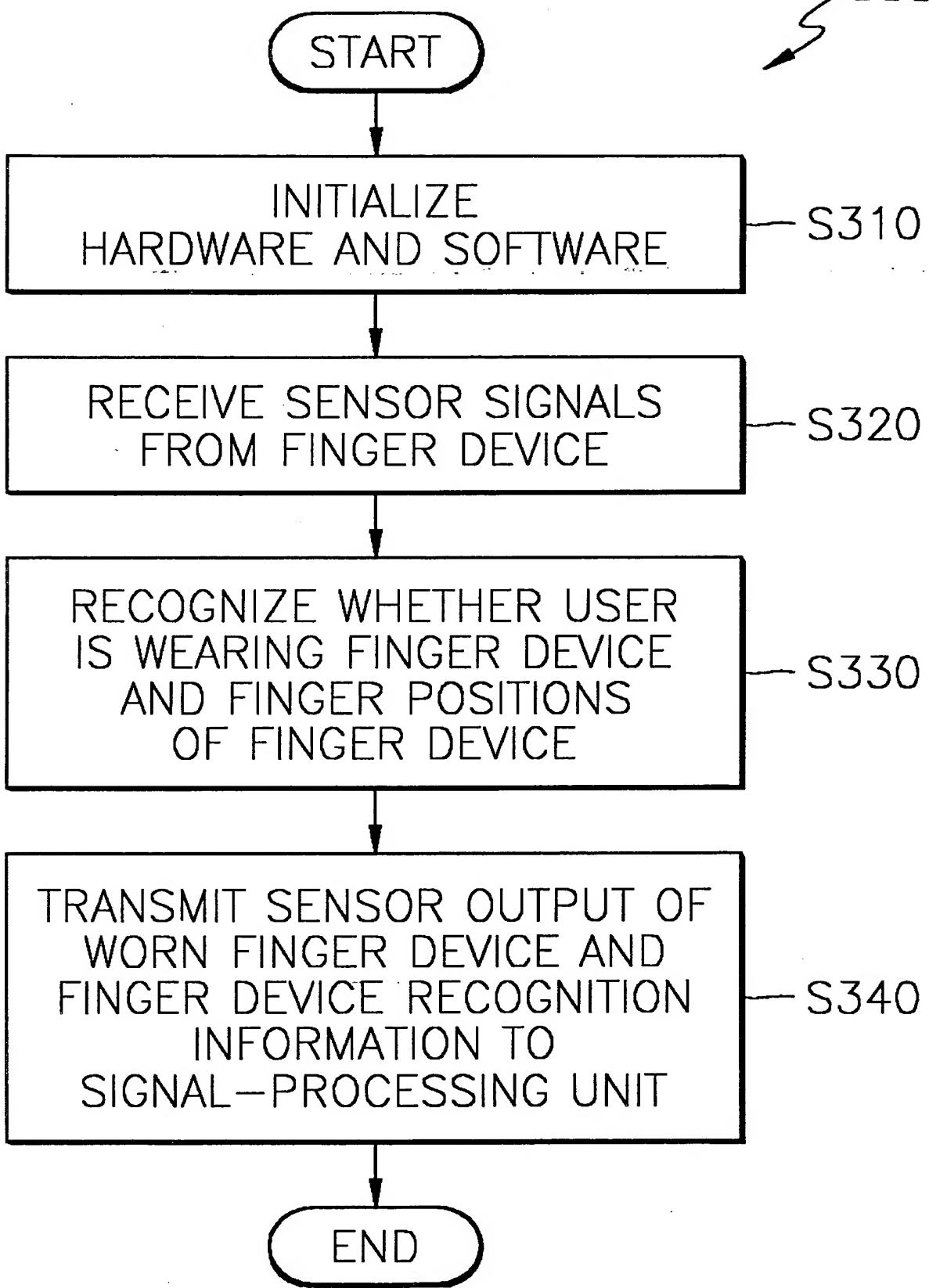
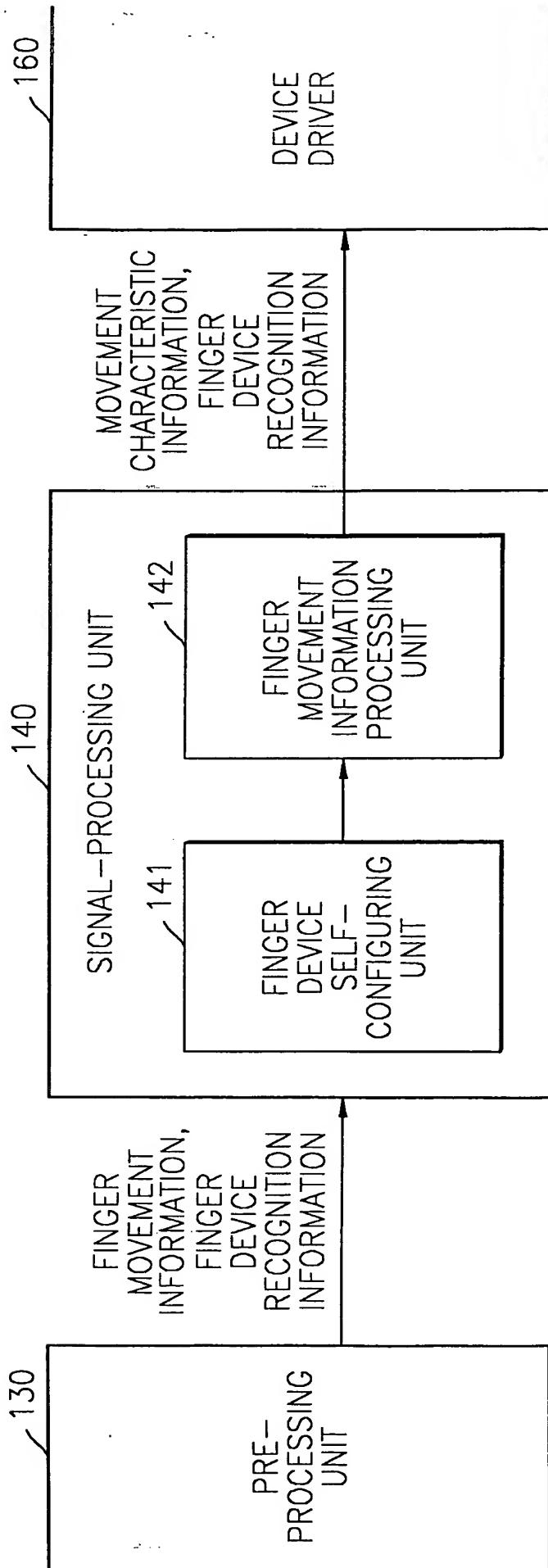


FIG. 4A



# FIG. 4B

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400  
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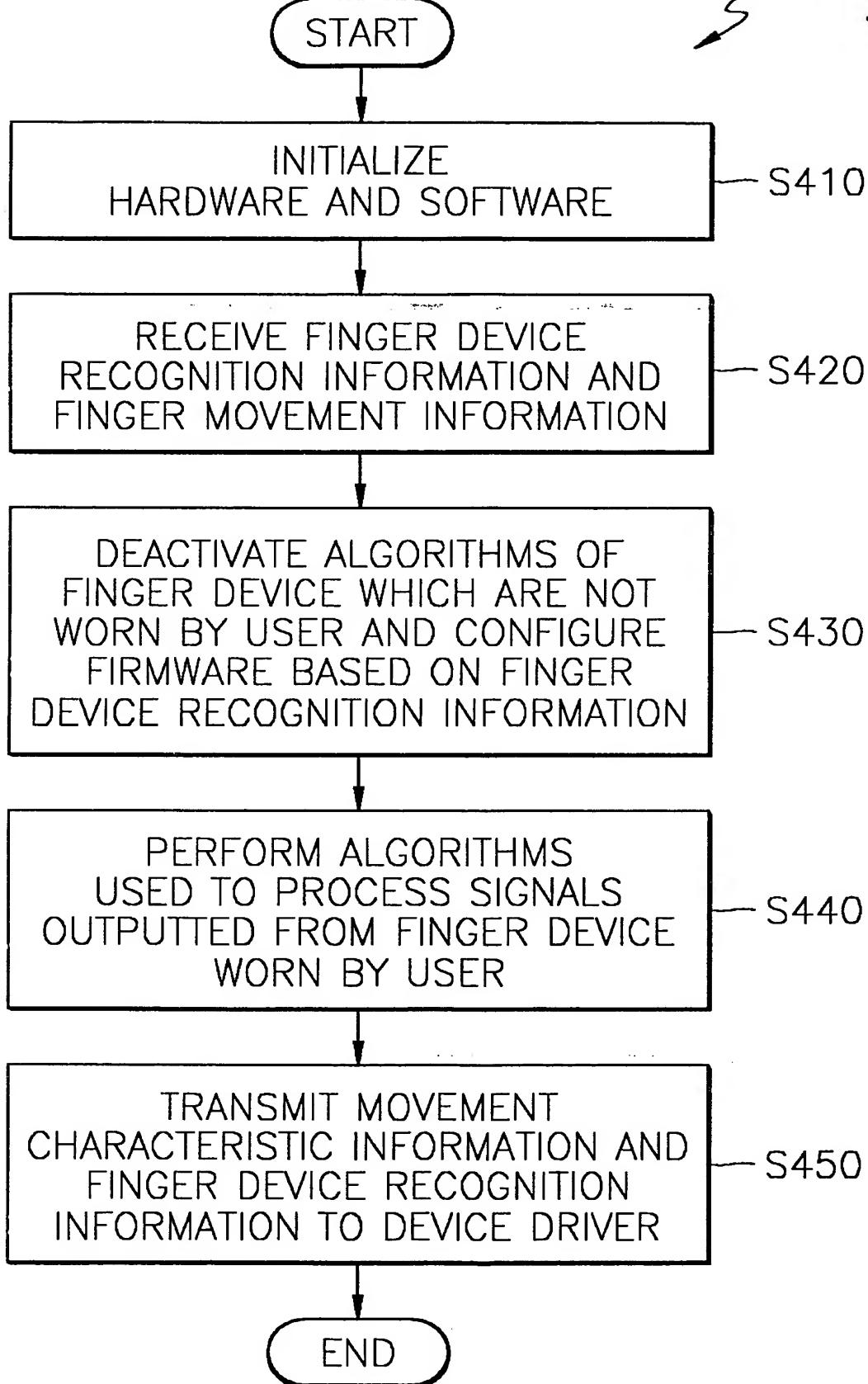
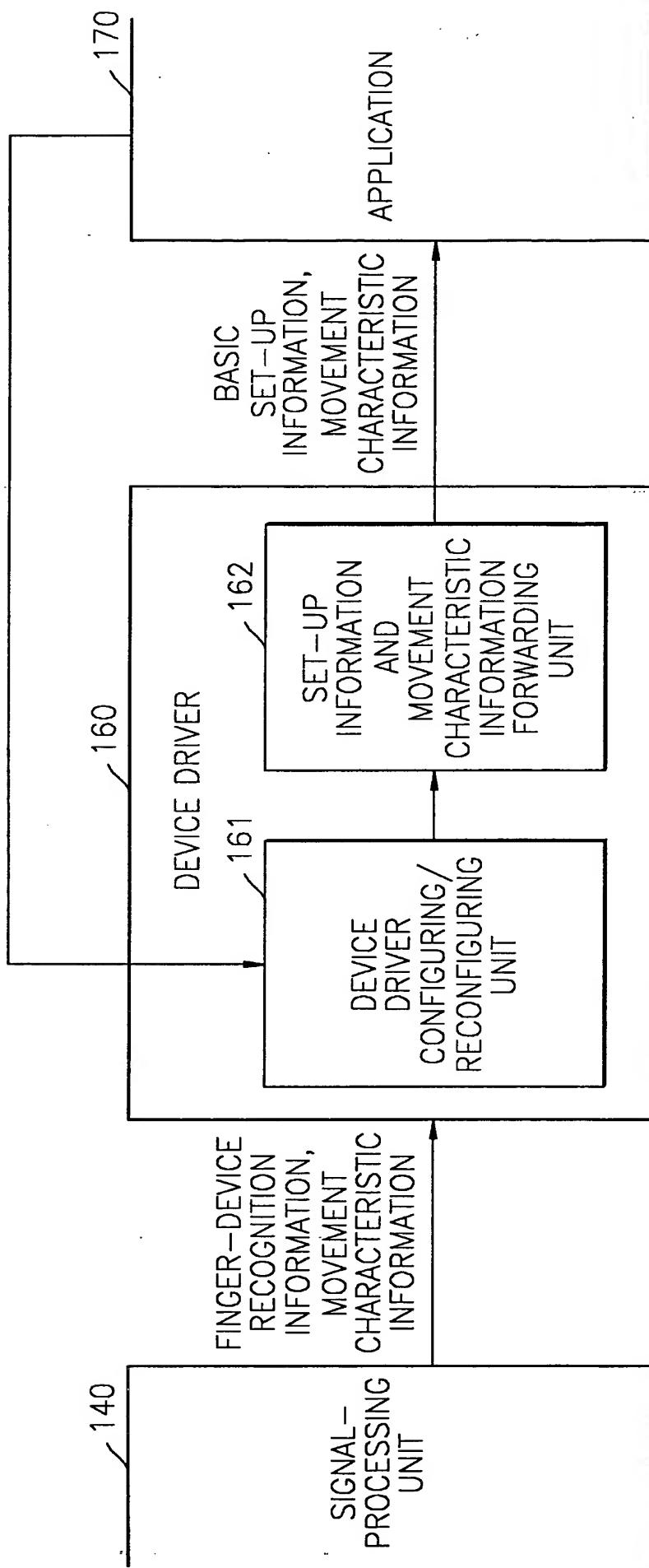


FIG. 5A



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FIG. 5B

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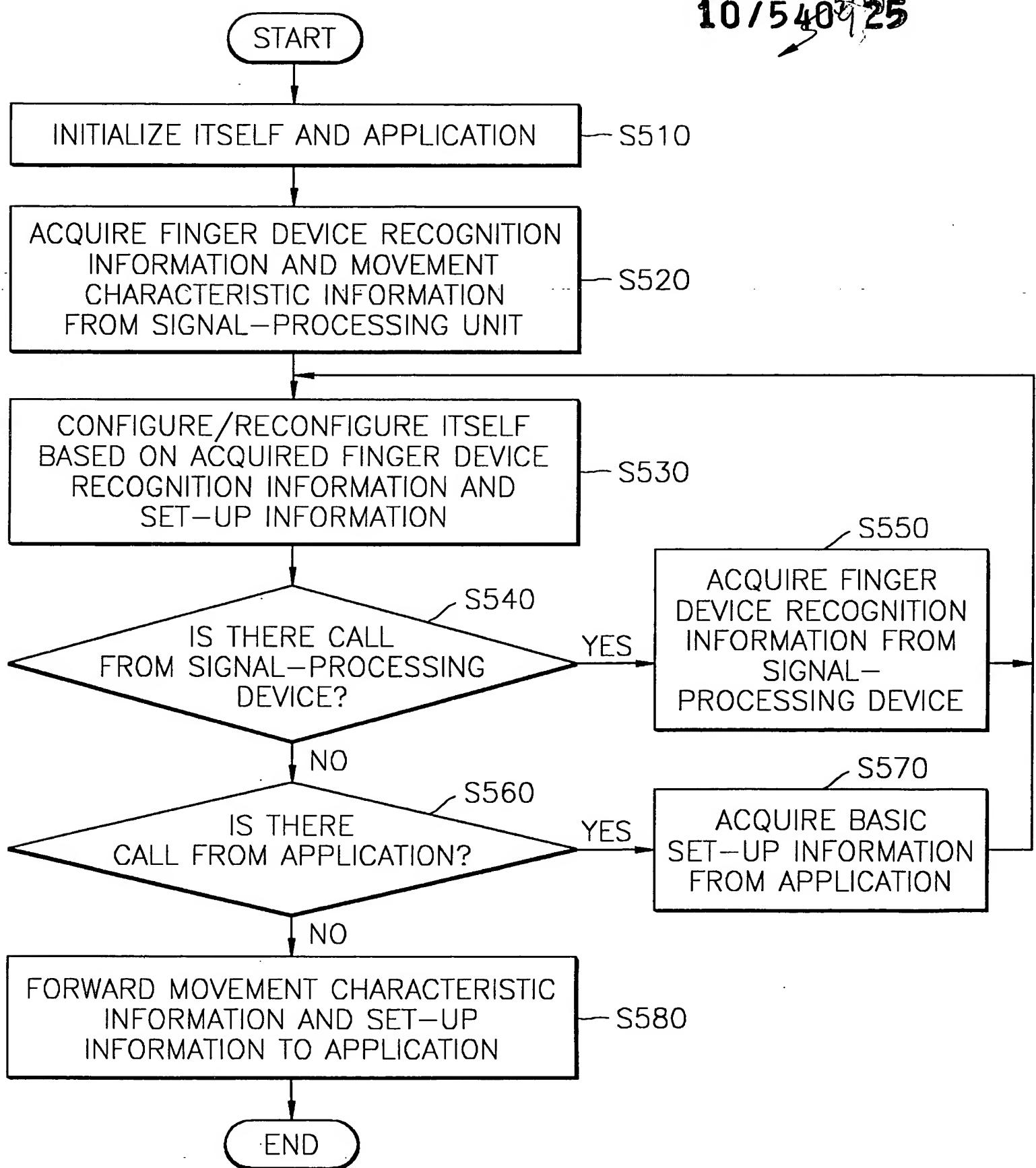
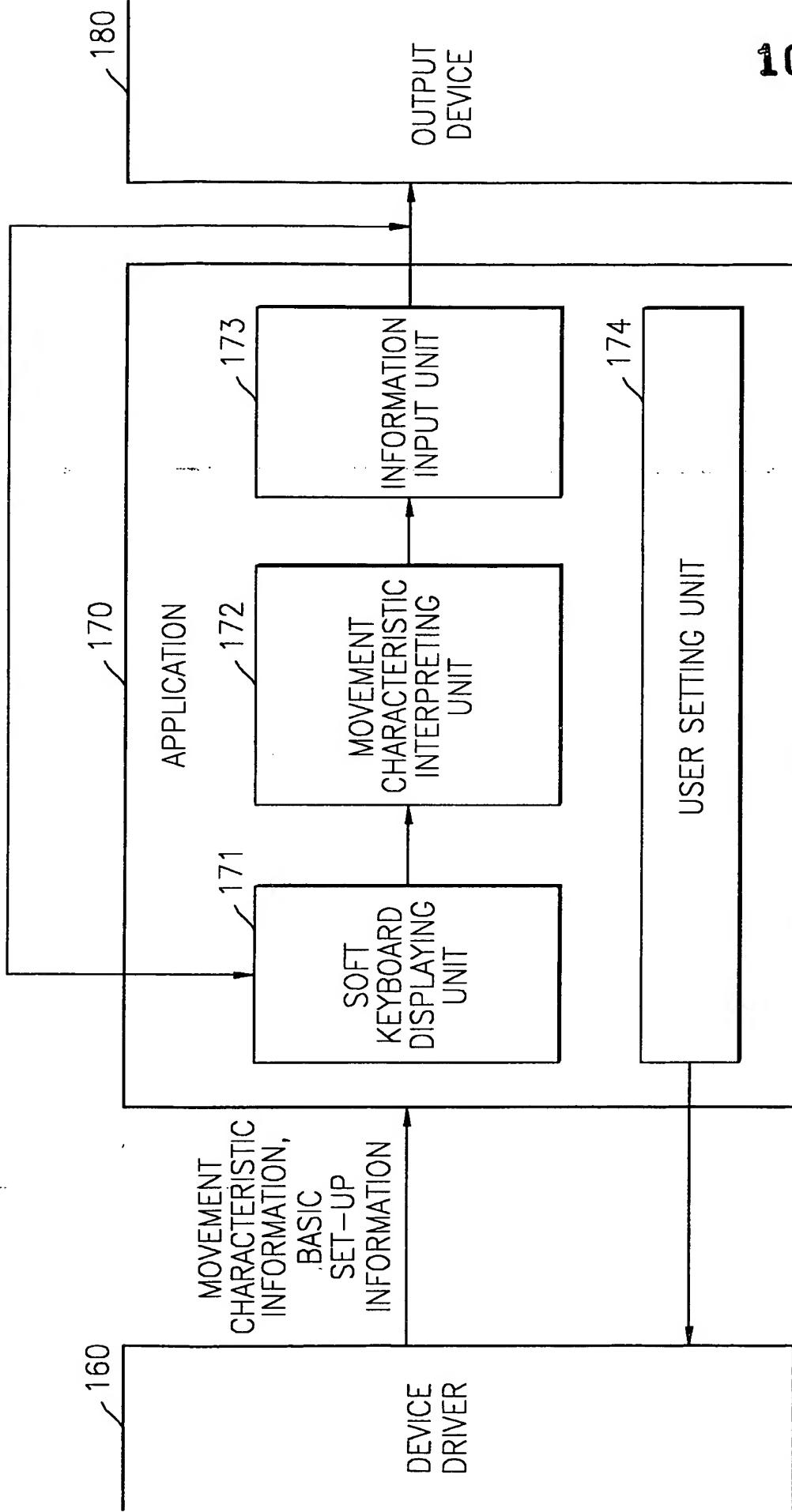


FIG. 6A



# FIG. 6B

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600

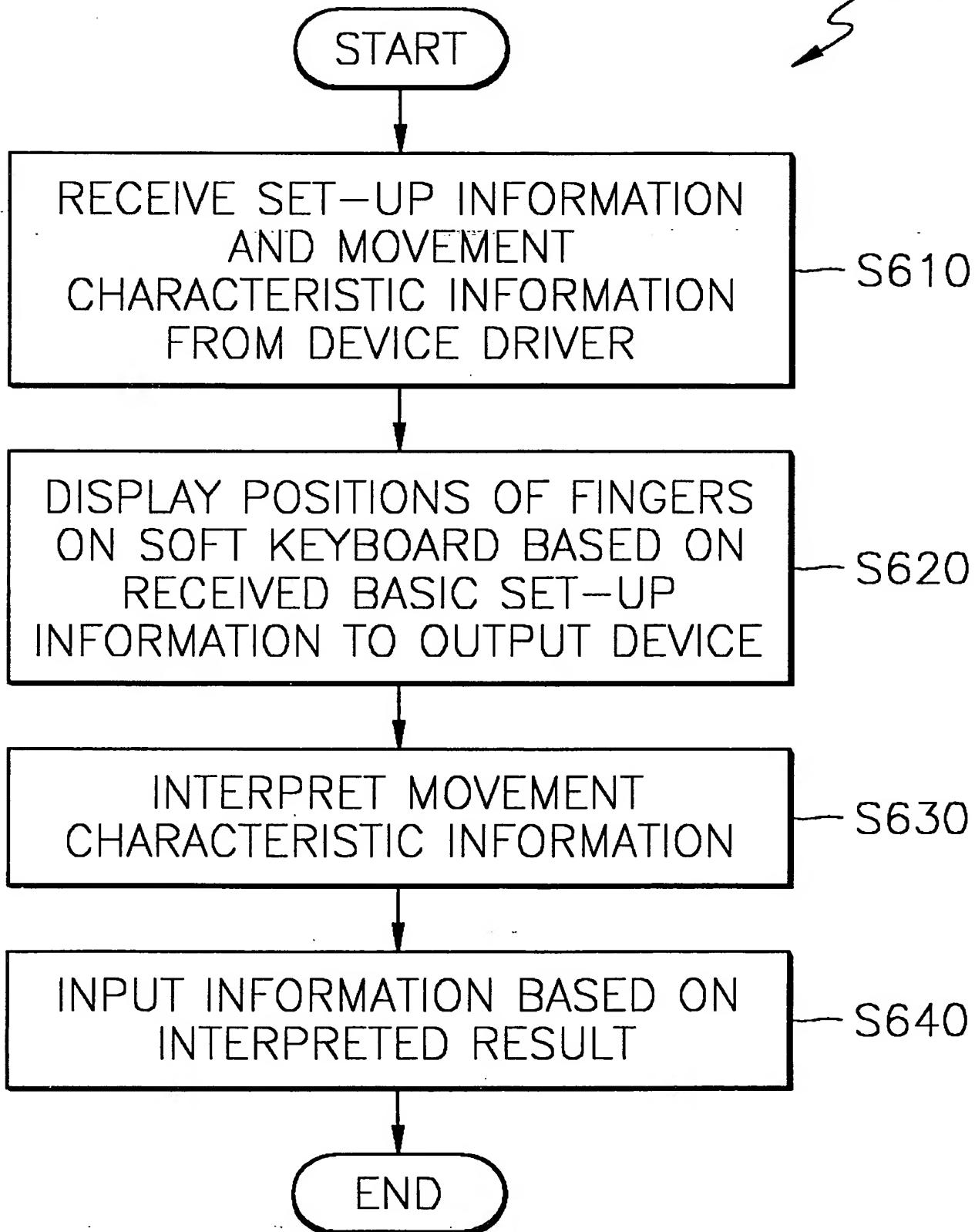
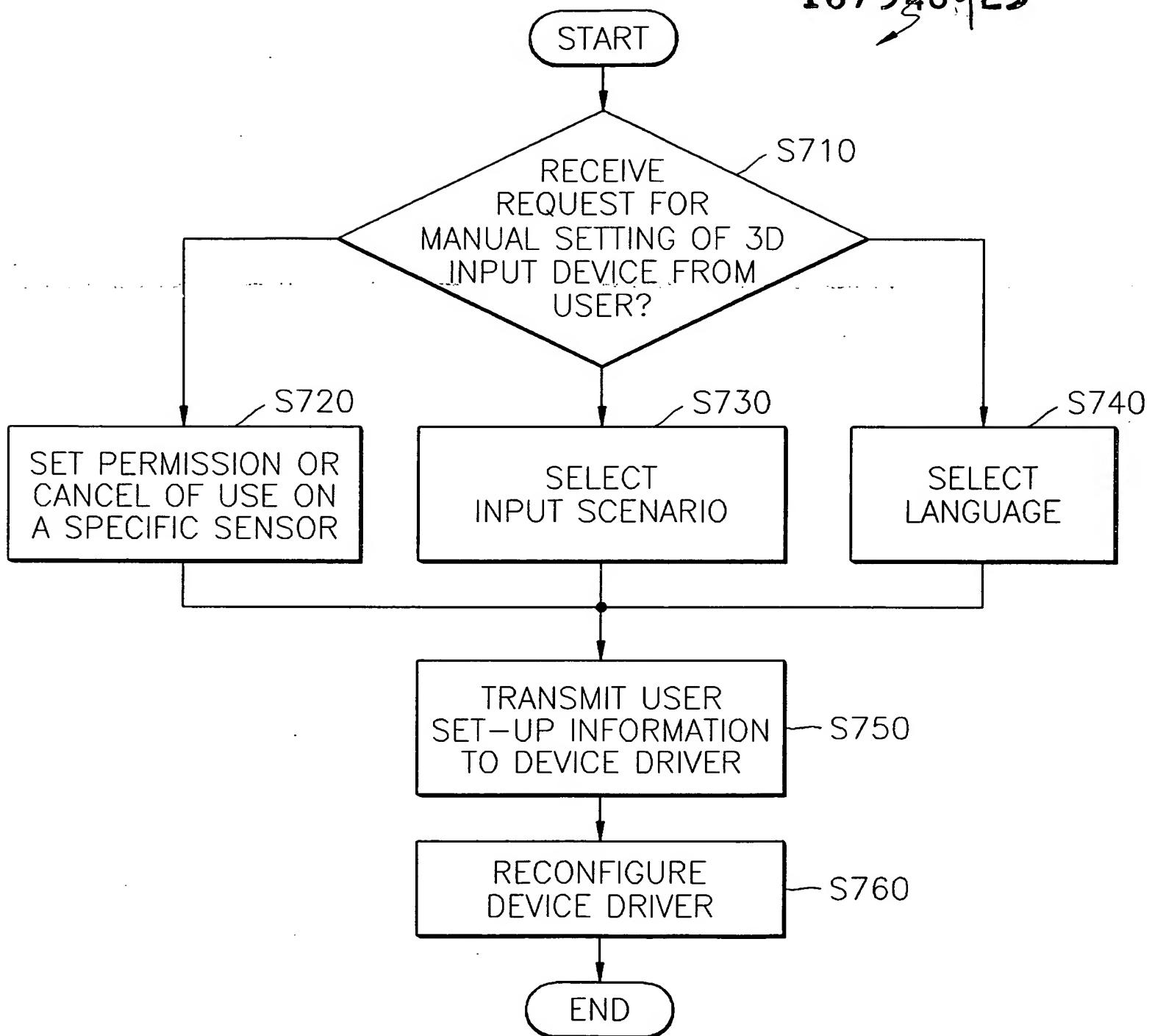


FIG. 7

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# FIG. 8

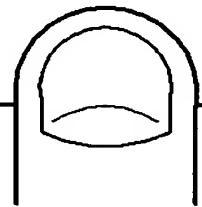
Sang-goog LEE, et al.  
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10/540925  
800

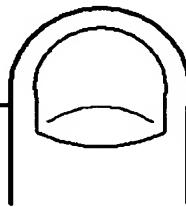
## SOFT KEYBOARD



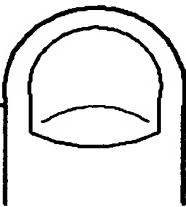
a-b-c



d-e-f



g-h-i



j-k-l

m-n-o

p-q-r

s-t-u-v

w-x-y-z

Caps

Enter

123

# FIG. 9

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10/15/05 9:25

CONTROL BOARD

[ ] [ ] [ ]

910

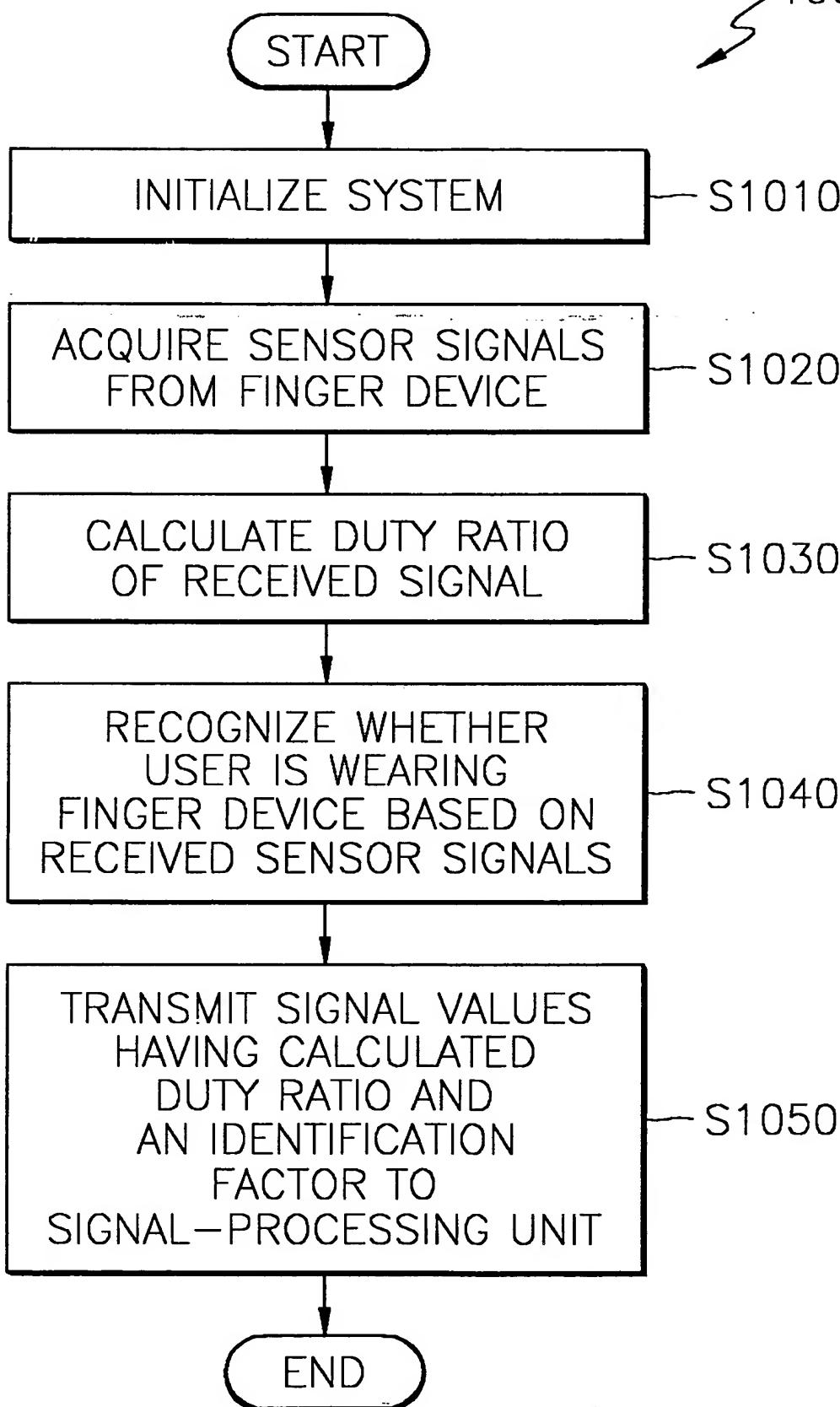
3D KEYBOARD REGISTRATION INFORMATION

[ ] [ ] [ ]

<p>KEYBOARD TYPE</p> <ul style="list-style-type: none"><li><input checked="" type="radio"/> KEYBOARD FOR RIGHT HAND</li><li><input type="radio"/> KEYBOARD FOR LEFT HAND</li><li><input type="radio"/> KEYBOARD FOR BOTH HANDS</li></ul>	<p>KEY ARRANGEMENT</p> <ul style="list-style-type: none"><li><input type="radio"/> ABC TEXT TYPE</li><li><input checked="" type="radio"/> QWERTY HAND TYPE</li><li><input type="radio"/> CELLULARPHONE TYPE</li></ul>	
<p>SELECTION OF FINGERS</p> <ul style="list-style-type: none"><li><input type="radio"/> ONE-FINGER</li><li><input type="radio"/> TWO-FINGERS</li><li><input type="radio"/> THREE-FINGERS</li><li><input checked="" type="radio"/> FOUR-FINGERS</li></ul>	<p>LANGUAGE</p> <ul style="list-style-type: none"><li><input type="radio"/> ENGLISH</li><li><input checked="" type="radio"/> KOREAN</li></ul>	
<p>920</p>	<p>930</p>	
<p>940</p>	<p>950</p>	
<p>960</p>	<p>970</p>	<p>980</p>
<p>CONFIRM</p>	<p>CANCEL</p>	<p>APPLY</p>

# FIG. 10

1000 10/540925



# FIG. 11

10/15/00 9:25

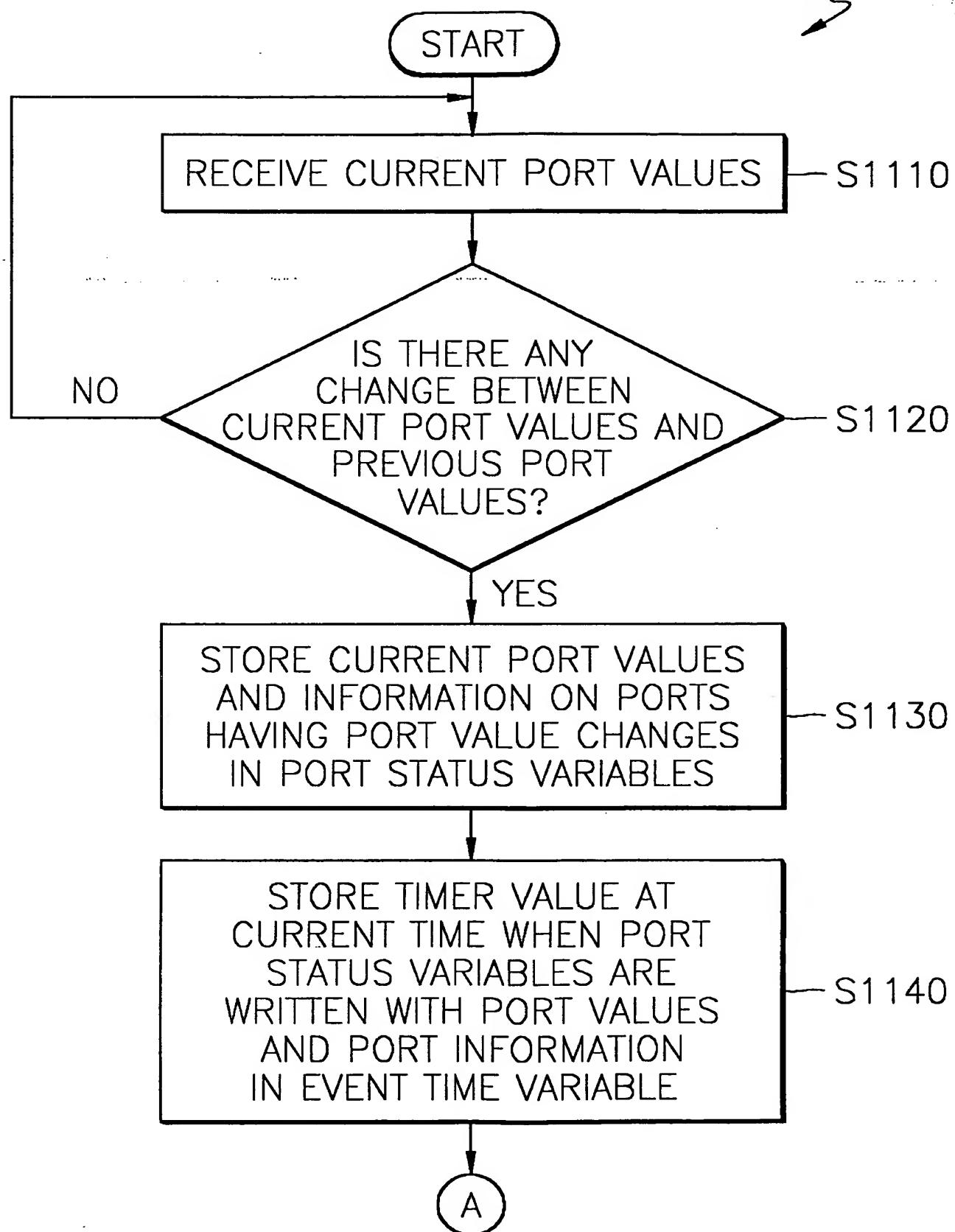
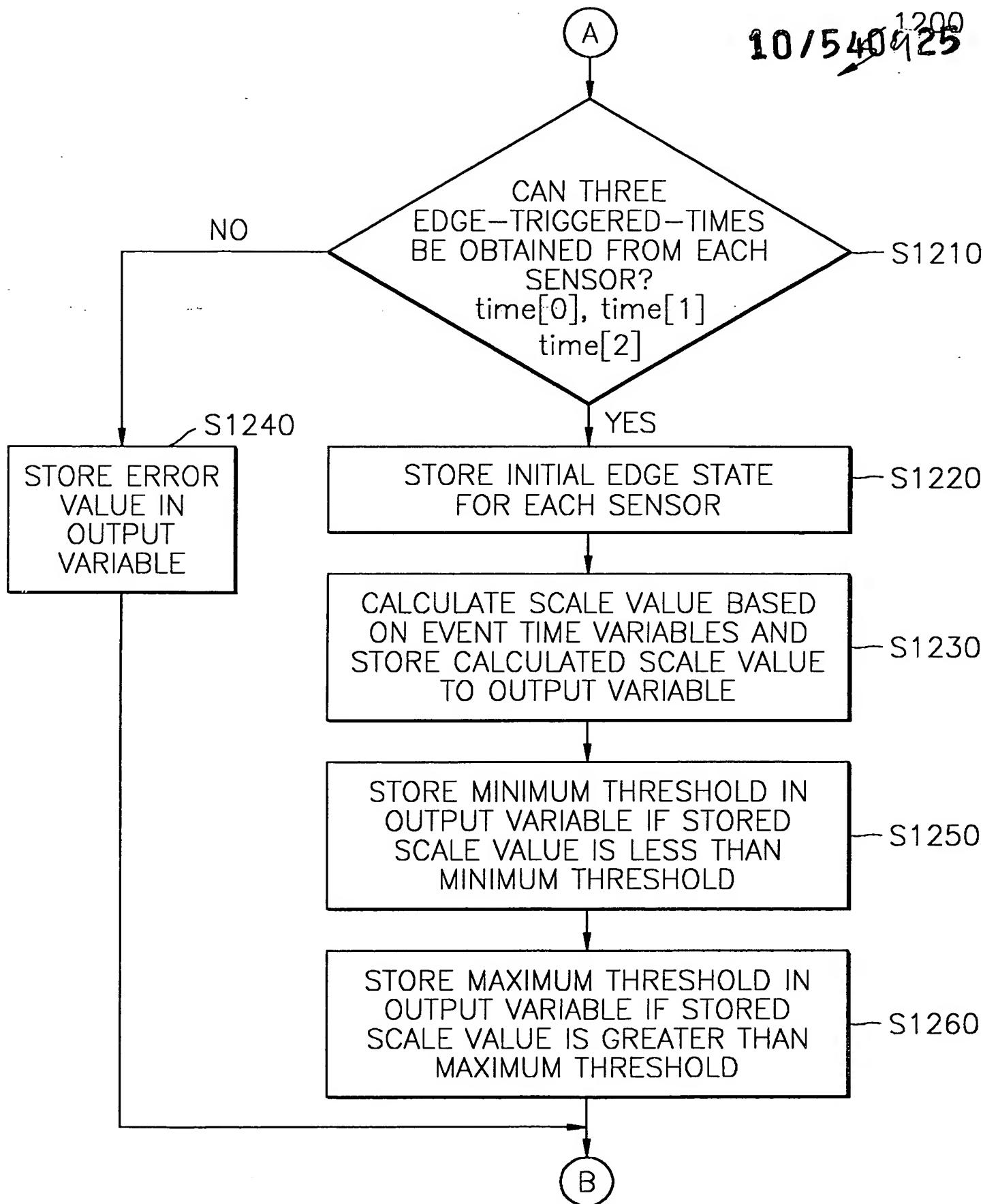


FIG. 12

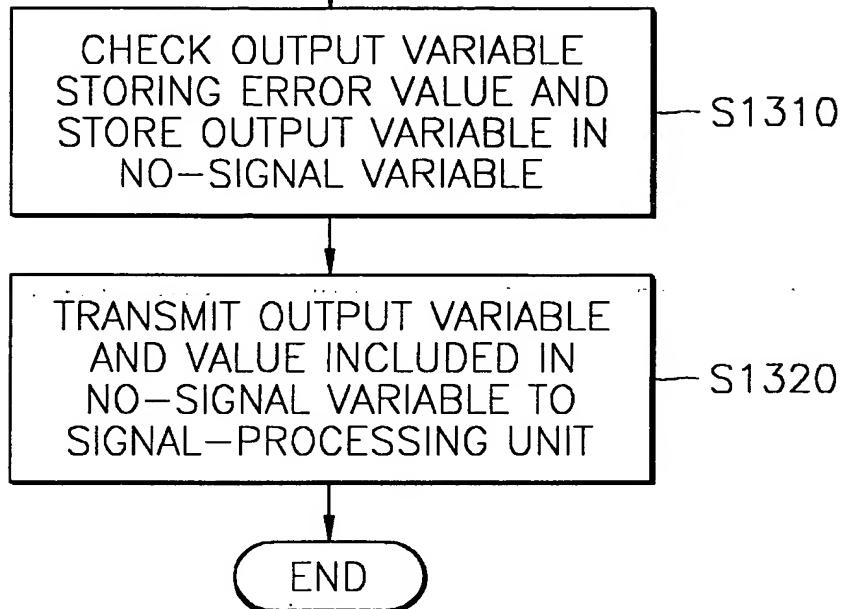
10/15/09 12:00  
10/15/09 12:25



# FIG. 13

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# FIG. 14

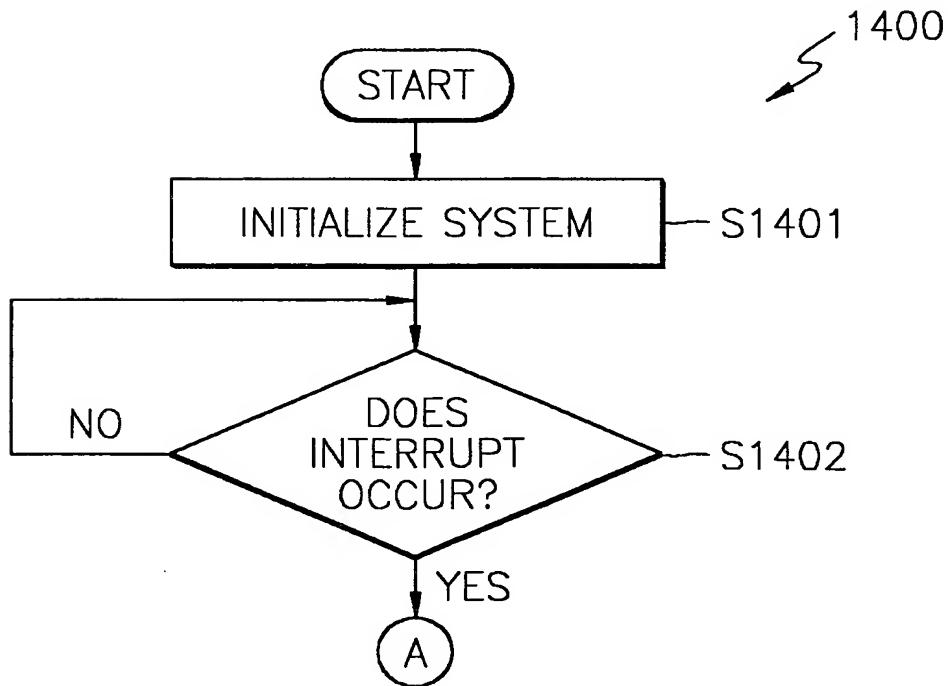


FIG. 15A

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INITIALIZE VARIABLES :  
TRANSITION\_COUNTER=0, INPUT\_COUNTER=0

S1501

INPUT CURRENT PORT VALUE INTO CURRENT\_INPUT AND  
PREVIOUS PORT VALUE INTO LAST\_INPUT: VARIABLE  
IN WHICH CURRENT ACQUISITION OF N (THE NUMBER OF  
FINGERS HAVING SENSOR ATTACHED THERETO) PORTS IS  
SEQUENTIALLY STORED, LAST\_INPUT= CURRENT\_INPUT

S1502

TRANSITION\_COUNTER < Ntc ?

S1503

NO B

CURRENT\_INPUT: CAPTURE CURRENT PORT SIGNAL

S1504

PERFORM SIGNAL COMBINATION  
VXOR = (CURRENT\_INPUT) XOR (LAST\_INPUT) :  
DETERMINE WHETHER THERE IS ANY CHANGE BETWEEN  
CURRENT PORT SIGNAL AND PREVIOUS PORT SIGNAL

S1505

VXOR IS 0 ?

S1506

YES

NO

MANIPULATE VARIABLE  
TRANSITION\_COUNTER = TRANSITION\_COUNTER+1  
PORT\_STATUS [INPUT\_COUNTER] =  
(N-BIT LEFT SHIFT CURRENT\_INPUT) + VXOR EVENT\_TIME  
[INPUT\_COUNTER] = CURRENT TIMER VALUE

S1507

INPUT\_COUNTER = INPUT\_COUNTER+1

S1508

IF INPUT\_COUNTER > Nic ?

S1509

YES B

NO

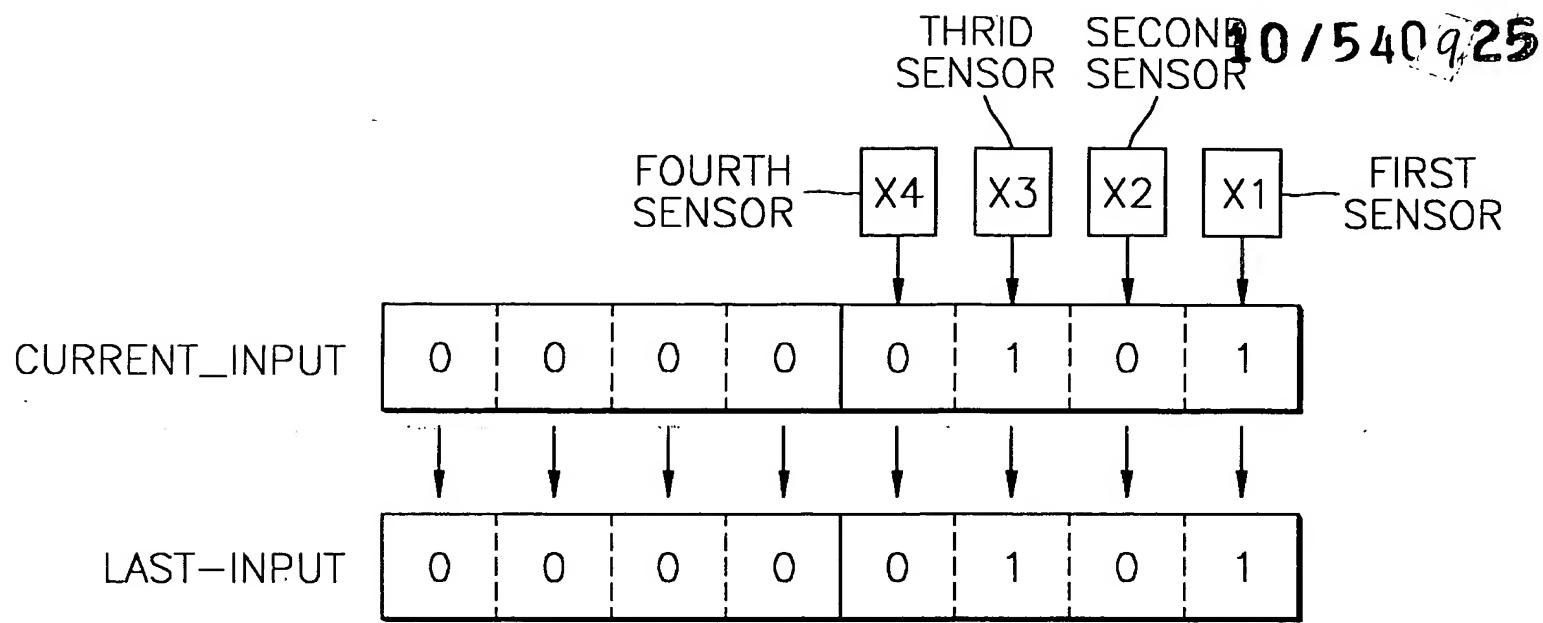
LAST\_INPUT=CURRENT\_INPUT

S1510

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# FIG. 15B

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# FIG. 15C

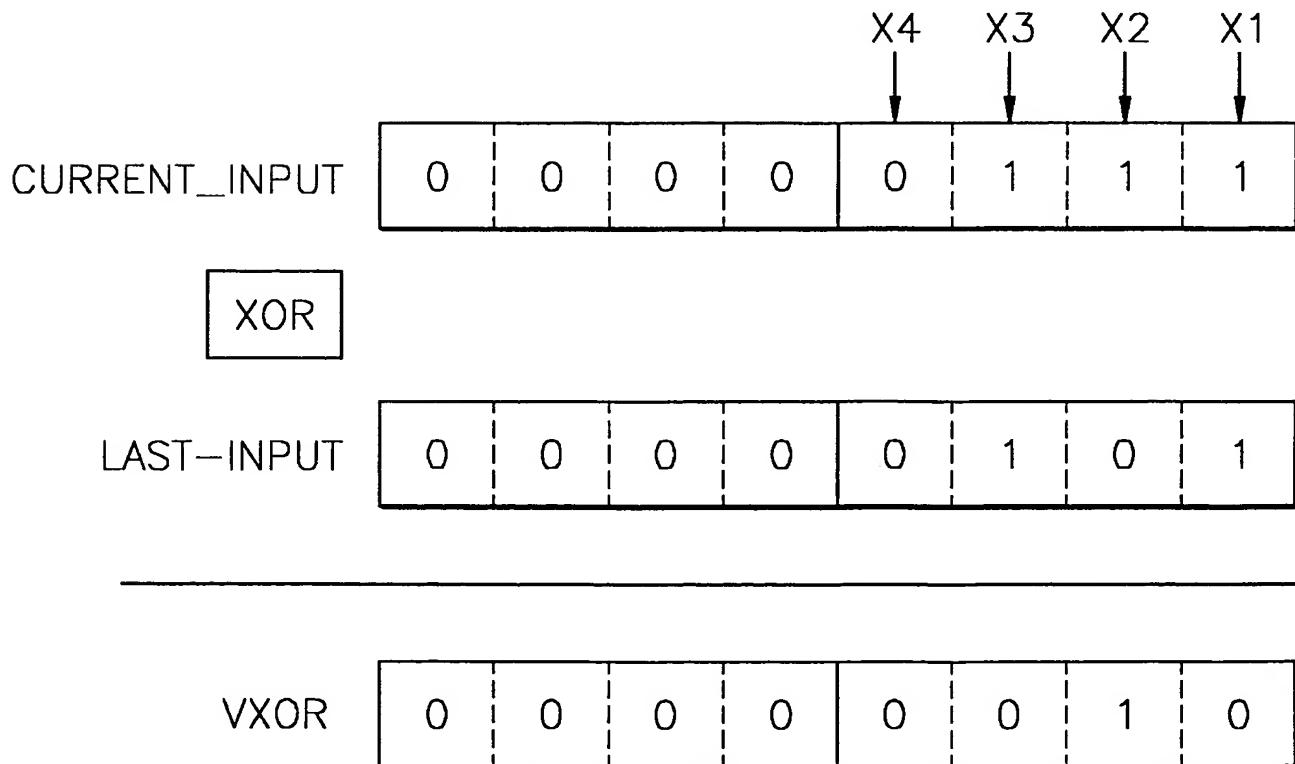
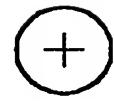


FIG. 15D

N-BIT LEFT SHIFTED  
CURRENT\_INPUT

0	1	1	1	0	0	0	0	0
---	---	---	---	---	---	---	---	---



VXOR

0	0	0	0	0	0	1	0	0
---	---	---	---	---	---	---	---	---

PORT\_STATUS

0	1	1	1	0	0	1	0	0
---	---	---	---	---	---	---	---	---

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CURRENT INPUT VALUE  
FROM SENSOR

EDGE-TRIGGERED  
SENSOR

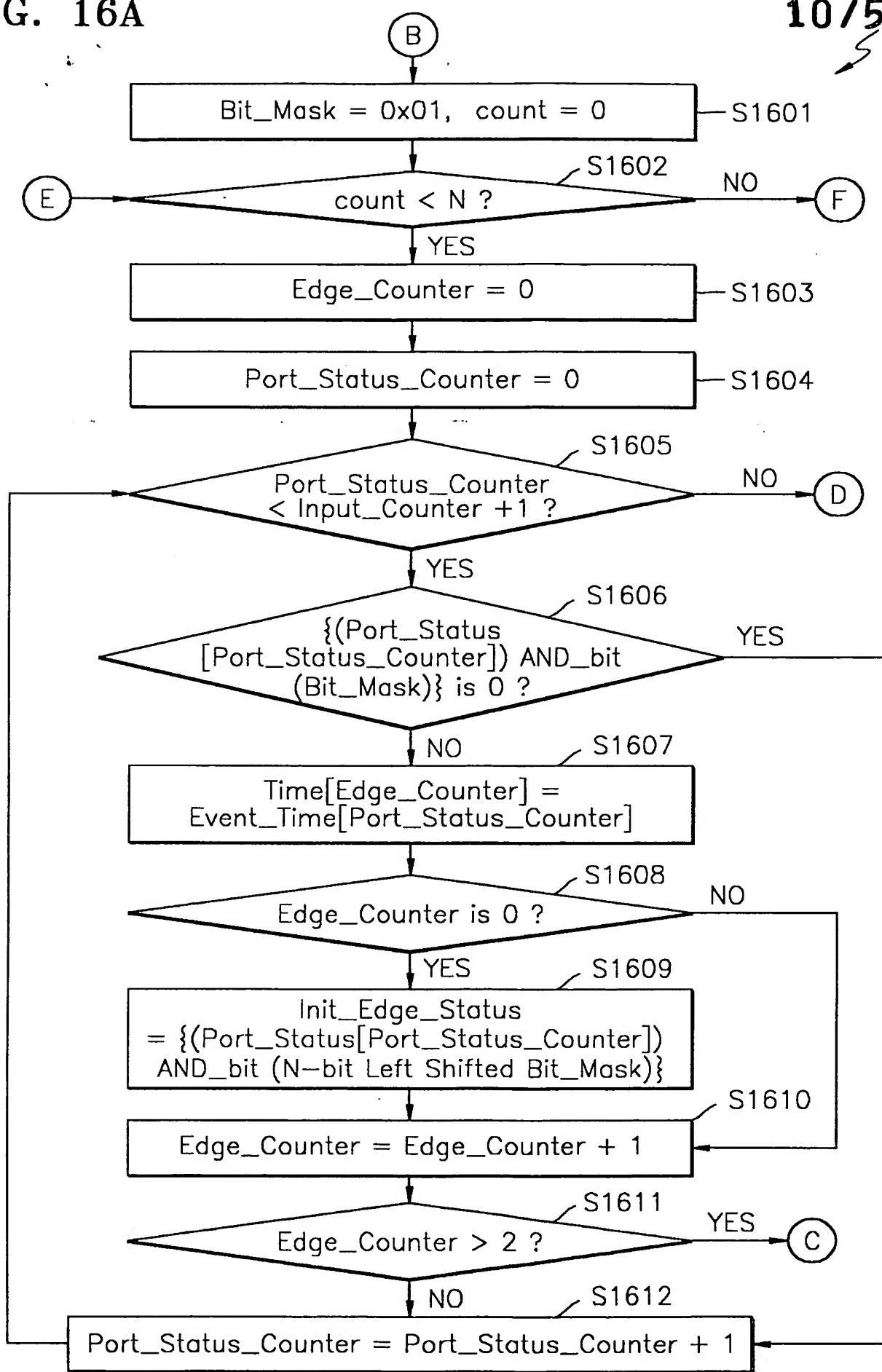
FIG. 15E

INPUT_COUNTER	CURRENT_INPUT	LAST_INPUT	VXOR	TRANSITION_COUNTER	PORT_STATUS[ ]	EVENT_TIME[ ]
0	0000 0101	0000 0101	0000 0000	1	0111 0010	10
1	0000 0111	0000 0111	0000 1000	2	1111 1000	50
2	0000 1110	0000 1111	0000 0001	3	1110 0001	130
3	0000 1010	0000 1110	0000 0010	4	1010 0100	160
4	0000 1000	0000 1010	0000 1000	5	1000 0010	170
5	0000 0000	0000 1000	0000 1000	6	0000 1000	210
6	0000 0001	0000 0000	0000 0001	7	0001 0001	280
7	0000 0101	0000 0001	0000 0100	8	0101 0100	300
8	0000 0111	0000 0101	0000 0010	9	0111 0010	320
9	0000 1111	0000 0111	0000 1000	10	1111 1000	360
10	0000 1110	0000 1111	0000 0001	11	1110 0001	430
11	0000 1010	0000 1110	0000 0100	12	1010 0100	450

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FIG. 16A

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# FIG. 16B

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PORT-STATUS[3]

X	X	X	X	0	0	0	1
<del>10/540925</del>							

AND-BIT

BIT\_MASK

0	0	0	0	0	0	0	1
---	---	---	---	---	---	---	---

# FIG. 16C

PORT-STATUS

1	1	1	0	X	X	X	X
---	---	---	---	---	---	---	---

AND-BIT

AND-BIT

N-BIT LEFT SHIFTED  
BIT\_MASK

0	0	0	1	0	0	0	0
---	---	---	---	---	---	---	---

INIT\_EDGE\_STATUS

0

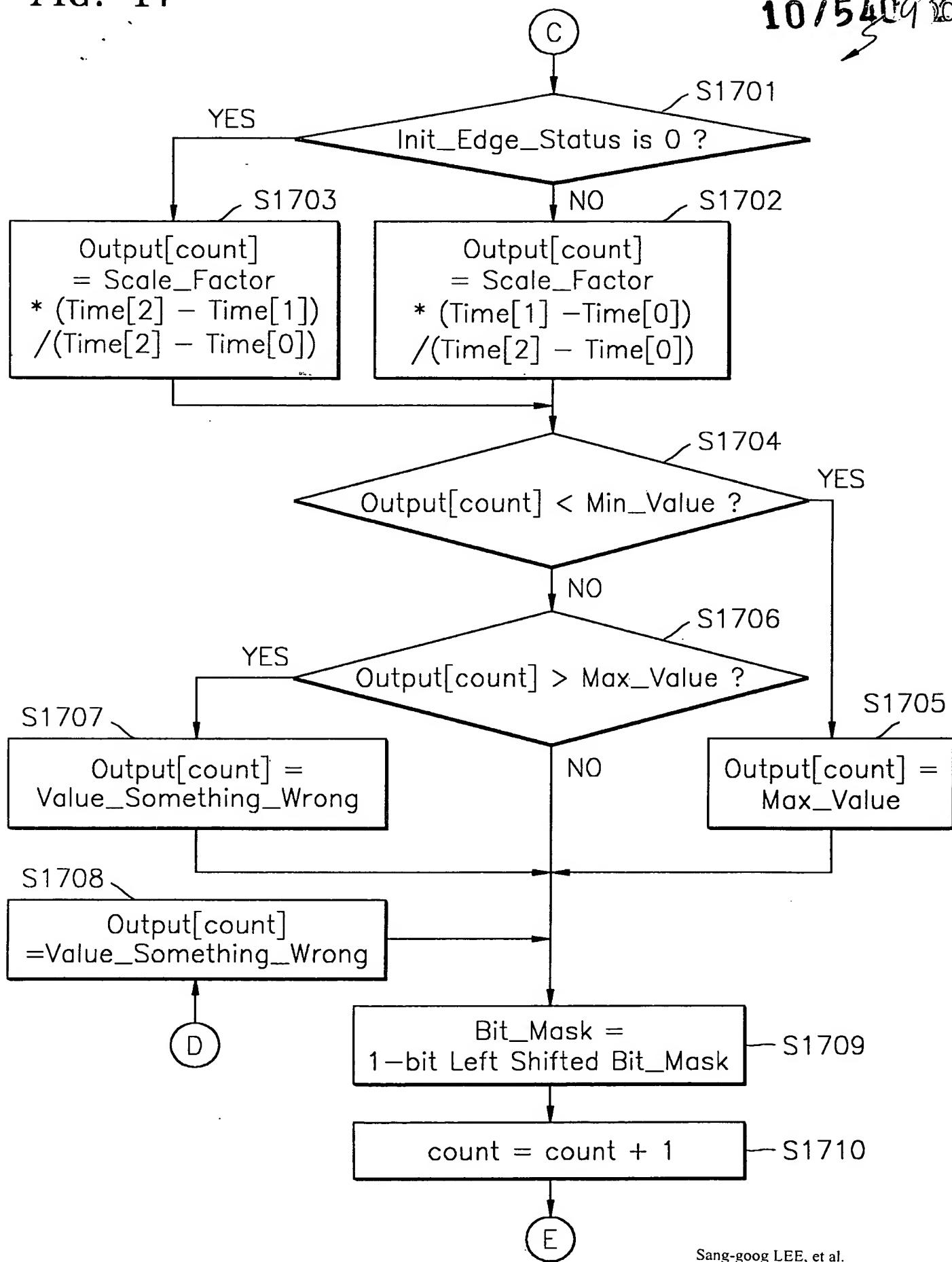
FIG. 16D

~~107540925~~

	X1	X2	X3	X4
Init_Edge_Status	0	1	0	1
Time[0]	130	10	160	50
Time[1]	280	170	300	210
Time[2]	430	320	450	360

FIG. 17

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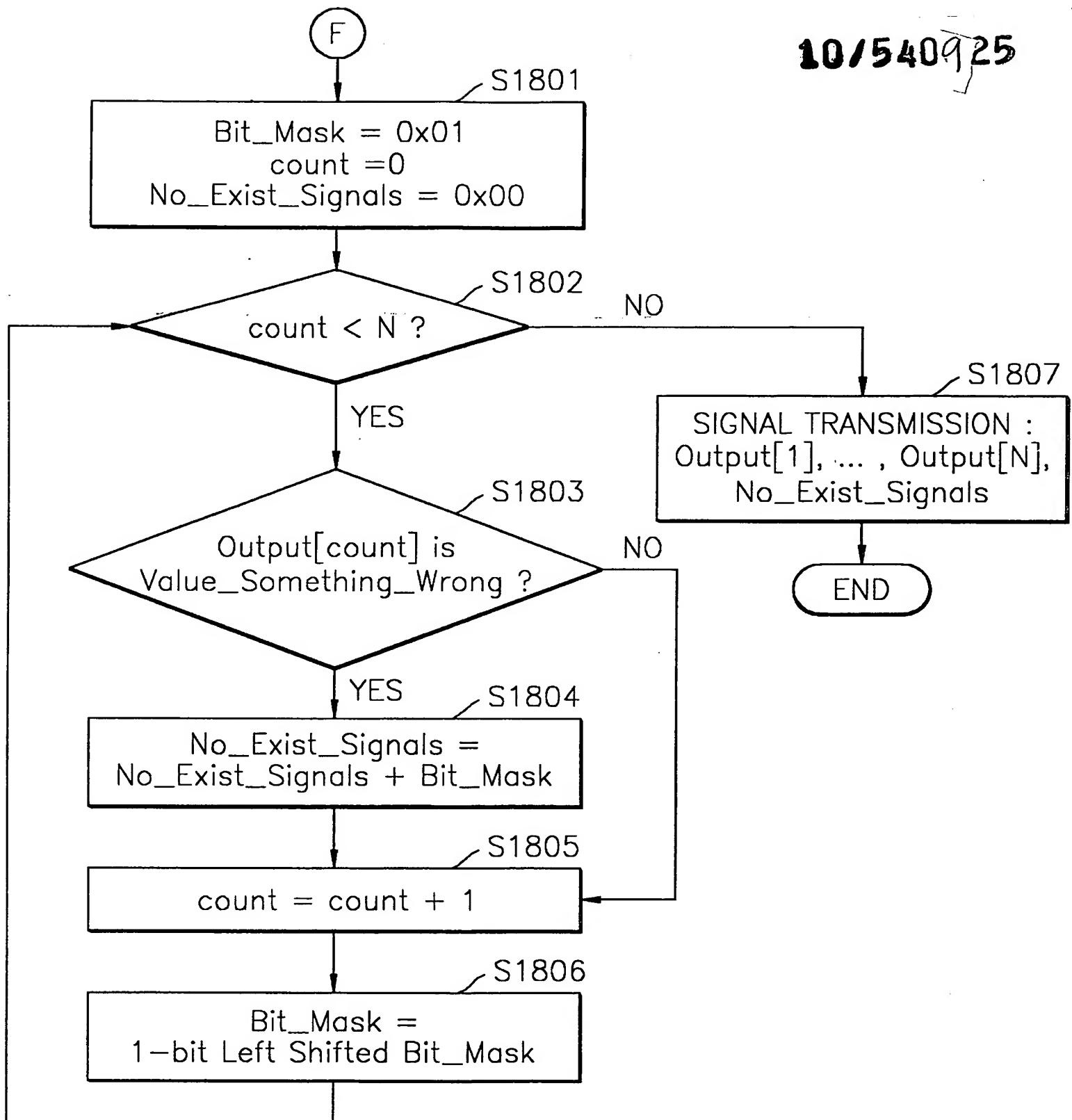


# FIG. 18A

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# FIG. 18B

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NO\_EXIST\_SIGNALS

0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---

+

BIT\_MASK

0	0	0	0	0	0	0	1
---	---	---	---	---	---	---	---

NO\_EXIST\_SIGNALS

0	0	0	0	0	0	0	1
---	---	---	---	---	---	---	---

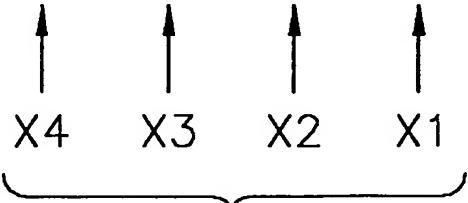
+

1-BIT LEFT SHIFTED  
BIT\_MASK

0	0	0	0	0	0	1	0
---	---	---	---	---	---	---	---

NO\_EXIST\_SIGNALS

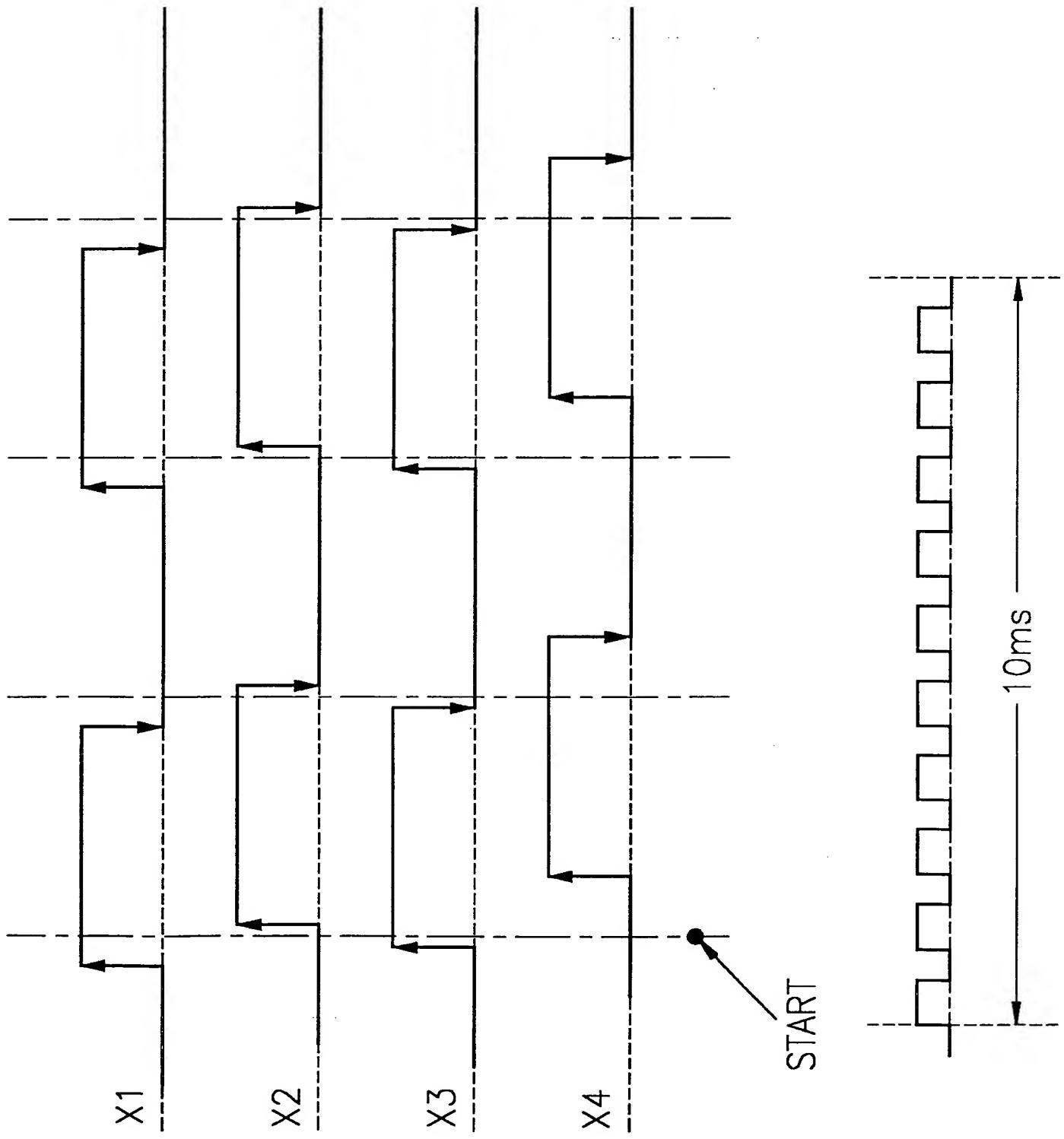
0	0	0	0	0	0	1	1
---	---	---	---	---	---	---	---



SENSOR OUTPUTTING  
ERROR VALUE

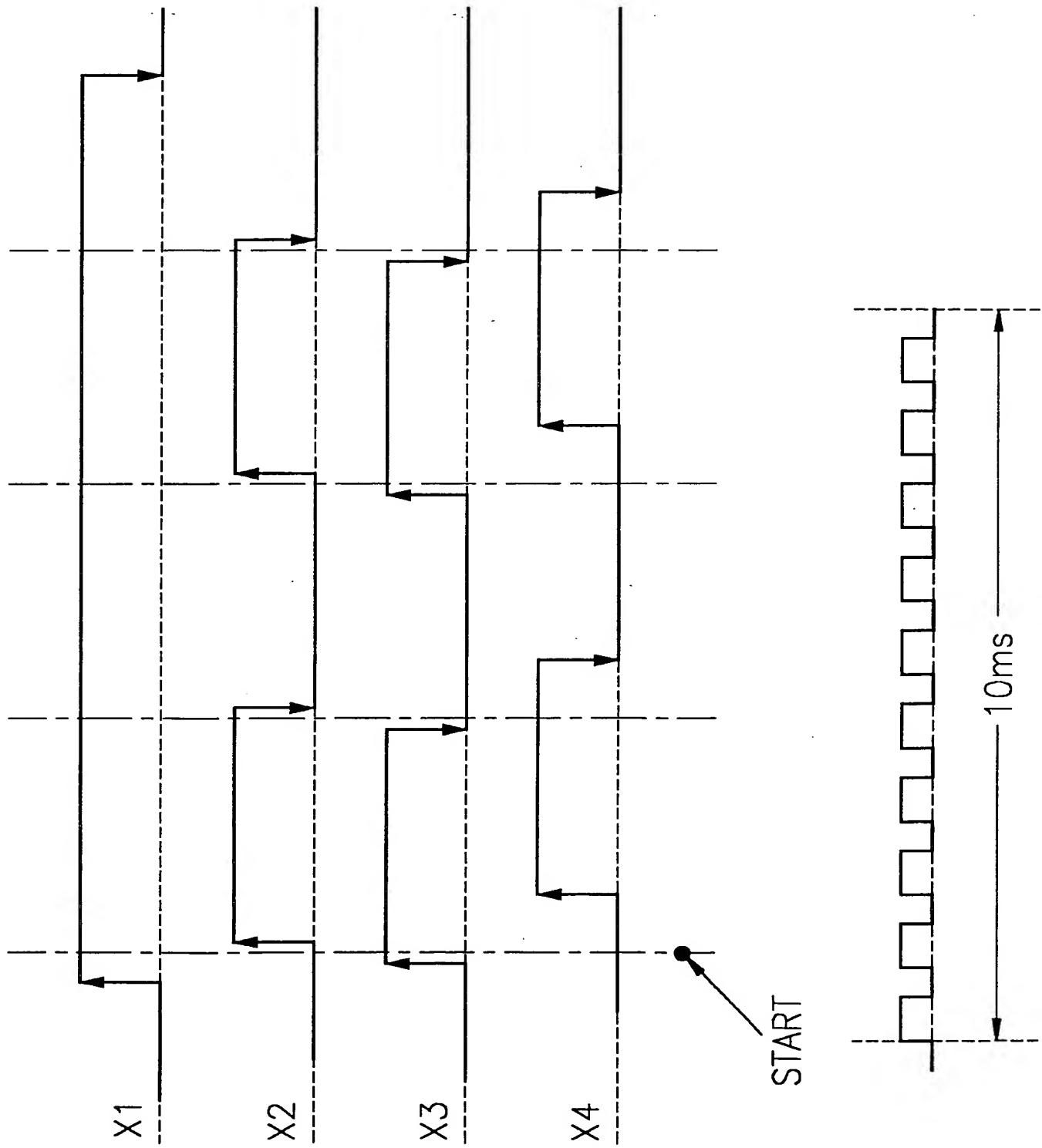
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FIG. 19



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FIG. 20



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